

## What is claimed is:

[Claim 1] 1. A conductive structure comprising:

an integrated circuit;

a substrate; and

a plurality of bumps positioned in between the integrated circuit and the substrate wherein at least one of the bumps comprises:

a first conductive part connected to the integrated circuit at one end;

a second conductive part connected to the integrated circuit at one end;

a conductive connection part connecting the first conductive part and the second conductive part;

a first insulation part surrounding the first conductive part and the second conductive part; and

a second insulation part positioned in between the first conductive part and the second conductive part.

[Claim 2] 2. The conductive structure of claim 1 wherein an anisotropic conductive film (ACF) is positioned in between the integrated circuit and the substrate for providing an electrical connection between the conductive connection part and the substrate.

[Claim 3] 3. The conductive structure of claim 1 wherein the height of the first conductive part and the second conductive part is  $H1$ , the height of the conductive connection part is  $H2$ , the height of the first insulation part is  $H3$ , and  $H1 \leq H3 \leq H1 + H2$ .

[Claim 4] 4. The conductive structure of claim 1 wherein the first conductive part and the second conductive part comprise gold, nickel, gold alloy, or nickel alloy.

**[Claim 5]** 5. The conductive structure of claim 1 wherein the conductive connection part comprises gold or gold alloy.

**[Claim 6]** 6. The conductive structure of claim 1 wherein the first insulation part and the second insulation part comprise light-isolating materials.

**[Claim 7]** 7. The conductive structure of claim 6 wherein the light-isolating material of the first insulation part and the second insulation part is polyimide.

**[Claim 8]** 8. The conductive structure of claim 1 wherein the first insulation part and the second insulation part are a monolithically-formed structure.

**[Claim 9]** 9. The conductive structure of claim 1 wherein the first conductive part includes a first hollow section.

**[Claim 10]** 10. The conductive structure of claim 1 wherein the second conductive part includes a second hollow section.

**[Claim 11]** 11. The conductive structure of claim 1 wherein the first conductive part is a post.

**[Claim 12]** 12. The conductive structure of claim 11 wherein the post is a triangular post, a tetragonal post, a polygonal post, a cylindrical post, or an elliptical post.

**[Claim 13]** 13. The conductive structure of claim 1 wherein the second conductive part is a post.

**[Claim 14]** 14. The conductive structure of claim 13 wherein the post is a triangular post, a tetragonal post, a polygonal post, a cylindrical post, or an elliptical post.

**[Claim 15]** 15. The conductive structure of claim 1 wherein the first conductive part and the second conductive part are a monolithically-formed post.

**[Claim 16]** 16. The conductive structure of claim 15 wherein the post is a hollow post.

**[Claim 17]** 17. The conductive structure of claim 16 wherein the second insulation part is located inside the hollow post.

**[Claim 18]** 18. The conductive structure of claim 17 wherein the hollow post includes an opening.

**[Claim 19]** 19. The conductive structure of claim 18 wherein the first insulation part and the second insulation part are a monolithically-formed structure.

**[Claim 20]** 20. A liquid crystal display comprising:  
a substrate;  
a liquid crystal display region positioned in the center of the substrate;  
an integrated circuit positioned on the edge of the substrate;  
a plurality of bumps positioned in between the substrate and the integrated circuit for electrically connecting the integrated circuit; and  
an anisotropic conductive film for providing an electrical connection between the bumps and the substrate, wherein the plurality of bumps further comprises:

a first conductive part connected to the integrated circuit at one end;  
a second conductive part connected to the integrated circuit at one end;  
a conductive connection part connecting the first conductive part and the second conductive part;  
a first insulation part surrounding the first conductive part and the second conductive part; and  
a second insulation part positioned in between the first conductive part and the second conductive part.

[Claim 21] 21. The liquid crystal display of claim 20 wherein the height of the first conductive part and the second conductive part is  $H1$ , the height of the conductive connection part is  $H2$ , the height of the first insulation part is  $H3$ , and  $H1 \leq H3 \leq H1 + H2$ .

[Claim 22] 22. The liquid crystal display of claim 20 wherein the first conductive part and the second conductive part comprises gold, nickel, gold alloy, or nickel alloy.

[Claim 23] 23. The liquid crystal display of claim 20 wherein the conductive connection part comprises gold or gold alloy.

[Claim 24] 24. The liquid crystal display of claim 20 wherein the first insulation part and the second insulation part comprise light-isolating materials.

[Claim 25] 25. The liquid crystal display of claim 20 wherein the light-isolating material of the first insulation part and the second insulation part is polyimide.

**[Claim 26]** 26. The liquid crystal display of claim 20 wherein the first insulation part and the second insulation part are a monolithically-formed structure.

**[Claim 27]** 27. The liquid crystal display of claim 20 wherein the first conductive part includes a first hollow section.

**[Claim 28]** 28. The liquid crystal display of claim 20 wherein the second conductive part includes a second hollow section.

**[Claim 29]** 29. The liquid crystal display of claim 20 wherein the first conductive part is a post.

**[Claim 30]** 30. The liquid crystal display of claim 29 wherein the post is a triangular post, a tetragonal post, a polygonal post, a cylindrical post, or an elliptical post.

**[Claim 31]** 31. The liquid crystal display of claim 30 wherein the second conductive part is a post.

**[Claim 32]** 32. The liquid crystal display of claim 31 wherein the post is a triangular post, a tetragonal post, a polygonal post, a cylindrical post, or an elliptical post.

**[Claim 33]** 33. The liquid crystal display of claim 20 wherein the first conductive part and the second conductive part are a monolithically-formed post.

**[Claim 34]** 34. The liquid crystal display of claim 33 wherein the post is a hollow post.

**[Claim 35]** 35. The liquid crystal display of claim 34 wherein the second insulation part is located inside the hollow post.

**[Claim 36]** 36. The liquid crystal display of claim 35 wherein the hollow post includes an opening.

**[Claim 37]** 37. The liquid crystal display of claim 36 wherein the first insulation part and the second insulation part are a monolithically-formed structure.